

Concertation Meeting on Home Health Care

organized by U-R-SAFE,
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Dr. Isa Hofmann, Messe Frankfurt GmbH



Toulouse 31 June - 01 July 03
Concertation Meeting on Home Health Care



WEALTHY Partners

- Messe Frankfurt GmbH (Germany)
 - dissemination; leading textile trade fair organiser
- CRSSA – Centre des Recherches du Service de Santé des Armées (France)
 - user, pilot validation
- HSR – Hospital San Raffaele (Italien)
 - user, pilot validation
- University of Pisa, “Centro E. Piaggio” and Dipartimento di Fisiologia e Biochimica (Italy)
 - academic partner, technological expertise, bio-engineering, sensor positioning, communication technology

WEALTHY Partners

- Milior S.p.A. (Italy)
 - co-ordinator, industrial partner and main result exploiter; garment producer, textile company
- ATKOSoft S.A. (Greece)
 - technology provider, monitoring system, software technology
- INSA – Institut National des Sciences Appliquées de Lyon (France)
 - experts in microsensorised systems and emotional pattern recognition
- CSEM - Swiss Center for Electronics and Microtechnology (Switzerland)
 - industrial research center, technology provider, signaling

Duration

- Start: 1 September 2002
- End: 28 February 2005
- three phases:
 - Specification
 - Implementation
 - Validation

Objectives

- providing a comfortable & continuous remote monitoring of vital signs of human beings
- cost-effective, non-invasive and wearable system
- based on wearable and wireless-instrumented garments
- integration of smart sensors into fibres and yarns endowed with a wide range of electrophysical properties (woven or knitted in fabric form)
- parameters' extrapolation and intersignal elaboration
→ contribute to evaluating the patient's synoptic data table
- integration of alert function
→ creates intelligent patient feedback and delivers appropriate information to a target professional

Target Application Groups

Professional personnel at risk or operating in extreme conditions (e.g. firefighters)

patients with heart disease during and after their rehabilitation

Means

- computing techniques
- smart sensors
 - built-in sensors
 - built-on sensors
- portable devices
- telecommunications
- local intelligence
- a decision support system

Benefit

- ensure a high degree of freedom and let the user perform his/her normal activities
- assist the patient during rehabilitation
- assist professional worker during risk activity
- ensure intelligent monitoring of the users during, i.e. everyday tasks and physical exercise



Benefit

- provide reassurance over the situation
- trigger automatic transmission of physiological or clinical sensitive parameters
- alert emergency services if the situation turns critical (absence of patient response, alarming vital signs, etc.)
- allow interpretation and extrapolation of index related to physiological conditions by considering all simultaneous data
- friendly interface for professionals



Dissemination

- Conferences, i.e.
 - press conference Techtextil, Brussels/Belgium
 - lecture at Fashion Day at Heimtextil, Frankfurt/Germany
 - Comité Télé-Médecine, Académie des sciences technologiques, Paris/France
 - Lecture at 5th International Heart Health Conference, Milan/Italy
 - 4th Annual IEEE EMBS, Birmingham/UK
 - Paper at ITAB



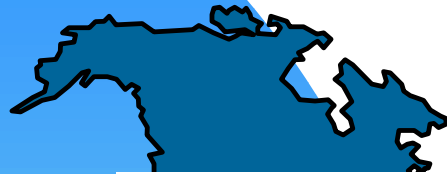
Dissemination

- Publications, i.e.
 - Press release; Messe Frankfurt
 - CPU Magazine, PATHfinder, Presspoint, Euro2day; ATKOSoft
- Website
 - set up, ongoing actualization
- Clustering Activities
- Promotion Material
 - Leaflet
 - Newsletter



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